

Refine Search

Search Results -

Terms	Documents
L9 and (gps or (global adj positioning adj satellite\$1))	0

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L12

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Friday, May 13, 2005 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=TDBD; PLUR=YES; OP=OR

<u>L12</u>	19 and (gps or (global adj positioning adj satellite\$1))	0	<u>L12</u>
<u>L11</u>	110 and (gps or (global adj positioning adj satellite\$1))	0	<u>L11</u>
<u>L10</u>	19 and (laser\$1 or ladar\$1 or lidar\$1)	4	<u>L10</u>
<u>L9</u>	18 and detect\$3	30	<u>L9</u>
<u>L8</u>	radar\$1	72	<u>L8</u>

DB=USOC; PLUR=YES; OP=OR

<u>L7</u>	16 and (gps or (global adj positioning adj satellite\$1))	0	<u>L7</u>
<u>L6</u>	15 and (laser\$1 or ladar\$1 or lidar\$1)	164	<u>L6</u>
<u>L5</u>	radar\$1 and detect\$3	4924	<u>L5</u>

DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR

<u>L4</u>	12 and 13	92	<u>L4</u>
<u>L3</u>	gps or (global adj positioning adj satellite\$1)	400172	<u>L3</u>
<u>L2</u>	11 and (laser\$1 or ladar\$1 or lidar\$1)	1952	<u>L2</u>
<u>L1</u>	radar\$1.ti,ab. and detect\$3.ti,ab.	15280	<u>L1</u>

END OF SEARCH HISTORY

Gregory, Bernarr

From: PLUS
Sent: Friday, May 13, 2005 10:35 AM
To: Gregory, Bernarr
Subject: PLUS Results for 10829184

Here are the PLUS search results for 10829184.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10829184_QUAL.txt



10829184_LIST.txt



10829184_WEST.txt



10829184_EAST.txt



10829184.east



10829184_CLS.txt



10829184_CLSTITLES.1



10829184_WDS.txt

xl

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PLUS Search Results for S/N 10829184, Searched May 13, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search

system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are

most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10829184_CLS

Most Frequently Occurring Classifications of Patents Returned
From A Search of 10829184 on May 13, 2005

Original Classifications

19	342/457
13	701/213
10	701/207
9	342/357.03
9	342/357.06
9	342/357.1
8	340/988
8	342/357.07
8	342/357.08
7	342/357.09
7	455/456.2
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6	701/211
5	342/357.13
4	340/825.49
4	455/404.2
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4	701/208
4	701/216
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3	342/357.14
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3	455/456.5
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3	701/201
3	701/209
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2	340/438
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2	342/357.05
2	342/357.16
2	343/713
2	370/316
2	370/346
2	473/407

2 701/50
2 702/166
2 704/260
2 713/200

Cross-Reference Classifications

48 701/213
35 342/457
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10829184_CLS

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7 340/995.1
7 342/357.14
7 342/450
7 701/210
7 701/220
6 340/426.19
6 340/426.2
6 340/539.1
6 342/357.01
6 455/456.3
6 455/517
6 455/524
6 701/50
5 340/989
5 340/995.14
5 342/357.02
5 701/117
5 701/301
4 340/438
4 340/825.36
4 340/991
4 340/995.18
4 340/995.23
4 340/995.26
4 340/995.27
4 340/995.28
4 342/352
4 342/358
4 343/700MS
4 375/356
4 379/37

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4 455/440
4 455/521
4 701/201
4 701/212
4 701/35
3 180/287
3 340/573.1
3 340/961
3 340/995.13
3 340/995.19
3 342/357.05
3 342/357.16
3 342/357.17
3 342/419
3 342/451
3 342/465
3 380/258
3 455/456.6
3 455/502
3 701/1
3 701/14
3 701/202
2 128/903
2 244/171
2 340/10.1
2 340/10.2
2 340/10.31
2 340/10.41
2 340/426.18
2 340/436
2 340/573.3
2 340/573.4
2 340/7.21
2 340/7.43
2 340/7.5
2 340/903
2 340/933
2 340/979
2 340/992
2 340/993
2 340/995.2
2 340/995.21
2 340/995.24
2 342/118
2 342/29
2 342/357.11
2 342/363
2 342/386

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2 342/462
2 343/713
2 343/725
2 348/116
2 361/814
2 370/316
2 370/324
2 370/335
2 370/346
2 375/376
2 379/45
2 396/310
2 455/11.1
2 455/13.2
2 455/439
2 455/454
2 455/522
2 455/563
2 455/575.9
2 473/407
2 700/3
2 701/120
2 701/206
2 701/217
2 701/221
2 701/222
2 701/24
2 701/29
2 702/166
2 704/260
2 704/270
2 713/200

10829184_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10829184 on May 13, 2005

61	701/213	(13 OR, 48 XR)
	Class 701 :	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200	NAVIGATION
	701/207	.Employing position determining equipment
	701/213	..Using Global Positioning System (GPS)
54	342/457	(19 OR, 35 XR)
	Class 342 :	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
	342/350	DIRECTIVE
	342/450	.Position indicating (e.g., triangulation)
	342/457	..Land vehicle location (e.g., bus, police car)
31	340/988	(8 OR, 23 XR)
	Class 340 :	COMMUNICATIONS: ELECTRICAL
	340/988	VEHICLE POSITION INDICATION
30	340/990	(2 OR, 28 XR)
	Class 340 :	COMMUNICATIONS: ELECTRICAL
	340/988	VEHICLE POSITION INDICATION
	340/989	.At remote location
	340/990	..With map display
29	701/207	(10 OR, 19 XR)
	Class 701 :	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200	NAVIGATION
	701/207	.Employing position determining equipment
24	701/208	(4 OR, 20 XR)
	Class 701 :	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200	NAVIGATION
	701/207	.Employing position determining equipment
	701/208	..For use in a map data base system
22	342/357.06	(9 OR, 13 XR)
	Class 342 :	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
	342/350	DIRECTIVE
	342/352	.Including a satellite

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342/357.01 ..With position indicating

342/357.06 ...Using Global Positioning Satellite (GPS or Glonass)

19 701/211 (6 OR, 13 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION

701/200 NAVIGATION

701/207 .Employing position determining equipment

701/208 ..For use in a map data base system

701/211 ...Having audio or visual route guidance

16 342/357.09 (7 OR, 9 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

342/357.01 ..With position indicating

342/357.06 ...Using Global Positioning Satellite (GPS or Glonass)

342/357.09With transmission of location-indicative information to or from a remote station

16 342/357.1 (9 OR, 7 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

342/357.01 ..With position indicating

342/357.06 ...Using Global Positioning Satellite (GPS or Glonass)

342/357.1Combined with telecommunication

16 701/200 (4 OR, 12 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION

701/200 NAVIGATION

15 340/825.49 (4 OR, 11 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/825 SELECTIVE

340/825.36 .Having indication or alarm (e.g., location indication)

340/825.49 ..Location indication

14 342/357.08 (8 OR, 6 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES

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- 342/350 DIRECTIVE
 - 342/352 .Including a satellite
 - 342/357.01 ..With position indicating
 - 342/357.06 ...Using Global Positioning Satellite (GPS or Glonass)
 - 342/357.08Determining relative position (e.g., distance or direction)
- 14 342/357.13 (5 OR, 9 XR)
- Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
- 342/350 DIRECTIVE
 - 342/352 .Including a satellite
 - 342/357.01 ..With position indicating
 - 342/357.06 ...Using Global Positioning Satellite (GPS or Glonass)
 - 342/357.13With storage device (i.e., map or database
-)
- 13 342/357.07 (8 OR, 5 XR)
- Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
- 342/350 DIRECTIVE
 - 342/352 .Including a satellite
 - 342/357.01 ..With position indicating
 - 342/357.06 ...Using Global Positioning Satellite (GPS or Glonass)
 - 342/357.07Tracking or monitoring (i.e., lost or stolen vehicles)
- 13 342/463 (1 OR, 12 XR)
- Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
- 342/350 DIRECTIVE
 - 342/450 .Position indicating (e.g., triangulation)
 - 342/463 ..Having plural transmitters or receivers
- 12 701/214 (1 OR, 11 XR)
- Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
- 701/200 NAVIGATION
 - 701/207 .Employing position determining equipment
 - 701/213 ..Using Global Positioning System (GPS)
 - 701/214 ...Means to improve accuracy of position or location
- 11 342/357.03 (9 OR, 2 XR)

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Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/352 ..Including a satellite

342/357.01 ..With position indicating

342/357.02 ...With accuracy enhancing

342/357.03Using differential correction

11 455/404.2 (4 OR, 7 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/404.1 ..Emergency or alarm communication

455/404.2 ..Location monitoring

10 455/12.1 (0 OR, 10 XR)

Class 455 : TELECOMMUNICATIONS

455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,
RETRANSMISSION OF SAME INFORMATION)

455/11.1 ..Portable or mobile repeater

455/12.1 ..Space satellite

10 701/209 (3 OR, 7 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION

701/200 NAVIGATION

701/207 ..Employing position determining equipment

701/208 ..For use in a map data base system

701/209 ...Including route searching or determining
device

9 455/456.1 (3 OR, 6 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/422.1 ..Zoned or cellular telephone system

455/456.1 ..Location monitoring

9 455/456.2 (7 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/422.1 ..Zoned or cellular telephone system

455/456.1 ..Location monitoring

455/456.2 ...Based on request signal

9 455/457 (1 OR, 8 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/422.1 ..Zoned or cellular telephone system

455/456.1 ..Location monitoring

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- 455/457 ...Location display
- 9 701/215 (3 OR, 6 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/200 NAVIGATION
 701/207 .Employing position determining equipment
 701/213 ..Using Global Positioning System (GPS)
 701/214 ...Means to improve accuracy of position or
 location
 701/215 Having multiple GPS antennas or receivers
 (e.g., differential GPS)
- 9 701/300 (1 OR, 8 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/300 RELATIVE LOCATION
- 8 340/539.13 (2 OR, 6 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM
 340/531 .With particular coupling link
 340/539.1 ..Radio
 340/539.11 ...Including personal portable device
 340/539.13 Tracking location (e.g., GPS, etc.)
- 8 342/357.12 (6 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.06 ...Using Global Positioning Satellite (GPS or
 Glonass)
 342/357.12 GPS receiver signal processing
- 8 455/456.5 (3 OR, 5 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/456.1 ..Location monitoring
 455/456.5 ...At system equipment (i.e., base station)
- 8 701/216 (4 OR, 4 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/200 NAVIGATION
 701/207 .Employing position determining equipment

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701/213 ..Using Global Positioning System (GPS)
 701/214 ...Means to improve accuracy of position or
 location
 701/216Having an self-contained position computin

g

means (e.g., dead reckoning)

7 73/178R (2 OR, 5 XR)
 Class 073 : MEASURING AND TESTING
 73/178R NAVIGATION

7 340/426.28 (0 OR, 7 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/425.5 LAND VEHICLE ALARMS OR INDICATORS
 340/426.1 .Of burglary or unauthorized use
 340/426.24 ..Including specified sensor
 340/426.28 ...Door or lock

7 340/905 (2 OR, 5 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/901 EXTERNAL CONDITION VEHICLE-MOUNTED INDICATOR O

R

ALARM
 340/905 .Highway information (e.g., weather, speed
 limits, etc.)

7 340/995.1 (1 OR, 6 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/988 VEHICLE POSITION INDICATION
 340/995.1 .Map display

7 342/357.14 (3 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.06 ...Using Global Positioning Satellite (GPS or
 Glonass)
 342/357.14Combined with secondary navigation system
 (i.e., LORAN, gyroscope, inertial; dead rec

koning, etc.)

7 342/450 (0 OR, 7 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/450 .Position indicating (e.g., triangulation)

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7 701/210 (3 OR, 4 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/200 NAVIGATION
 701/207 .Employing position determining equipment
 701/208 ..For use in a map data base system
 701/209 ...Including route searching or determining
 device
 701/210Route correction, modification, or
 verification

7 701/220 (1 OR, 6 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/200 NAVIGATION
 701/207 .Employing position determining equipment
 701/220 ..Using inertial sensor

6 340/426.19 (1 OR, 5 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/425.5 LAND VEHICLE ALARMS OR INDICATORS
 340/426.1 .Of burglary or unauthorized use
 340/426.18 ..Remote alarm
 340/426.19 ...Using GPS (i.e., location)

6 340/426.2 (0 OR, 6 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/425.5 LAND VEHICLE ALARMS OR INDICATORS
 340/426.1 .Of burglary or unauthorized use
 340/426.18 ..Remote alarm
 340/426.2 ...Cellular

6 340/539.1 (0 OR, 6 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM
 340/531 .With particular coupling link
 340/539.1 ..Radio

6 342/357.01 (1 OR, 5 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating

6 455/456.3 (6 OR, 0 XR)
 Class. 455 : TELECOMMUNICATIONS

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455/403	RADIOTELEPHONE SYSTEM
455/422.1	.Zoned or cellular telephone system
455/456.1	..Location monitoring
455/456.3	...Position based personal service
6 455/517	(0 OR, 6 XR)
Class 455 :	TELECOMMUNICATIONS
455/39	TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
455/500	.Plural transmitters or receivers (i.e., more than two stations)
455/507	..Central station (e.g., master, etc.)
455/517	...To or from mobile station
6 455/524	(0 OR, 6 XR)
Class 455 :	TELECOMMUNICATIONS
455/39	TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
455/500	.Plural transmitters or receivers (i.e., more than two stations)
455/507	..Central station (e.g., master, etc.)
455/517	...To or from mobile station
455/524Multiple base stations
6 701/50	(2 OR, 4 XR)
Class 701 :	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
701/50	.Construction or agricultural-type vehicle (e.g., crane, forklift)
5 340/989	(1 OR, 4 XR)
Class 340 :	COMMUNICATIONS: ELECTRICAL
340/988	VEHICLE POSITION INDICATION
340/989	.At remote location
5 340/995.14	(1 OR, 4 XR)
Class 340 :	COMMUNICATIONS: ELECTRICAL
340/988	VEHICLE POSITION INDICATION
340/995.1	.Map display
340/995.14	..Manipulation of map display or data
5 342/357.02	(3 OR, 2 XR)
Class 342 :	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
342/350	DIRECTIVE
342/352	.Including a satellite

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342/357.01 ..With position indicating
342/357.02 ...With accuracy enhancing

5 701/117 (1 OR, 4 XR)
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR
INDICATION
701/117 .Traffic analysis or control of surface vehicl

e

5 701/301 (0 OR, 5 XR)
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
701/300 RELATIVE LOCATION
701/301 .Collision avoidance

4 340/438 (2 OR, 2 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/425.5 LAND VEHICLE ALARMS OR INDICATORS
340/438 .Internal alarm or indicator responsive to a
condition of the vehicle

4 340/825.36 (0 OR, 4 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/825 SELECTIVE
340/825.36 .Having indication or alarm (e.g., location
indication)

4 340/991 (1 OR, 3 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/988 VEHICLE POSITION INDICATION
340/989 .At remote location
340/991 ..Position indication transmitted by vehicle
after receipt of information from local sta

tion

4 340/995.18 (0 OR, 4 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/988 VEHICLE POSITION INDICATION
340/995.1 .Map display
340/995.14 ..Manipulation of map display or data
340/995.18 ...Particular data storage

4 340/995.23 (0 OR, 4 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/988 VEHICLE POSITION INDICATION

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340/995.1 .Map display

340/995.19 ..Route determination and display on map

340/995.2 ...Intersection turn guidance

340/995.21Off course, route re-search

340/995.23Specifying particular start/destination

4 340/995.26 (1 OR, 3 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/988 VEHICLE POSITION INDICATION

340/995.1 .Map display

340/995.26 ..Including particular display structure (e.g.
detachable, rolling map sheet, etc.)

4 340/995.27 (2 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/988 VEHICLE POSITION INDICATION

340/995.1 .Map display

340/995.27 ..Including particular display feature (e.g.,
indication of direction, mileage, road type
, etc.)

4 340/995.28 (0 OR, 4 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/988 VEHICLE POSITION INDICATION

340/995.1 .Map display

340/995.28 ..Including particular position/direction
sensor

4 342/352 (1 OR, 3 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

4 342/358 (0 OR, 4 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

342/358 ...With satellite signal correction

4 343/700MS (0 OR, 4 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/700MS .Microstrip

4 375/356 (1 OR, 3 XR)

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Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/354 SYNCHRONIZERS
 375/356 .Network synchronizing more than two stations

4 379/37 (0 OR, 4 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/37 EMERGENCY OR ALARM COMMUNICATIONS (E.G.,
 WATCHMAN'S CIRCUIT)

4 455/440 (0 OR, 4 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/436 ..Handoff
 455/440 ...Based upon unit location

4 455/521 (1 OR, 3 XR)
 Class 455 : TELECOMMUNICATIONS
 455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

 455/500 .Plural transmitters or receivers (i.e., more
 than two stations)
 455/507 ..Central station (e.g., master, etc.)
 455/517 ...To or from mobile station
 455/521Emergency dispatch or response

4 701/201 (3 OR, 1 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/200 NAVIGATION
 701/201 .Determination of travel data based on the
 start point and destination point

4 701/212 (0 OR, 4 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/200 NAVIGATION
 701/207 .Employing position determining equipment
 701/208 ..For use in a map data base system
 701/212 ...Having variable map scale

4 701/35 (0 OR, 4 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR
 INDICATION
 701/29 .Vehicle diagnosis or maintenance indication

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701/35 ..With data recording device

3 180/287 (0 OR, 3 XR)

Class 180 : MOTOR VEHICLES

180/271 WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, IT

S

180/287 OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT
.By preventing unauthorized or unintended
access or use

3 340/573.1 (2 OR, 1 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/500 CONDITION RESPONSIVE INDICATING SYSTEM

340/540 .Specific condition

340/573.1 ..Human or animal

3 340/961 (2 OR, 1 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/945 AIRCRAFT ALARM OR INDICATING SYSTEMS

340/961 .Potential collision with other aircraft

3 340/995.13 (1 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/988 VEHICLE POSITION INDICATION

340/995.1 .Map display

340/995.12 ..Transmission of map data to vehicle

340/995.13 ...Traffic information

3 340/995.19 (0 OR, 3 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/988 VEHICLE POSITION INDICATION

340/995.1 .Map display

340/995.19 ..Route determination and display on map

3 342/357.05 (2 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

342/357.01 ..With position indicating

342/357.05 ...Using Doppler frequency shift

3 342/357.16 (2 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

342/357.01 ..With position indicating

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- 342/357.16 ...Using low Earth orbit (telecommunication) satellites
- 3 342/357.17 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.17 ...With particular action taken responsive to position
- 3 342/419 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
 342/350 DIRECTIVE
 342/385 .Beacon or receiver
 342/417 ..Direction-finding receiver only
 342/419 ...Portable
- 3 342/451 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
 342/350 DIRECTIVE
 342/450 .Position indicating (e.g., triangulation)
 342/451 ..By computer
- 3 342/465 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
 342/350 DIRECTIVE
 342/450 .Position indicating (e.g., triangulation)
 342/463 ..Having plural transmitters or receivers
 342/465 ...Plural receivers only
- 3 380/258 (1 OR, 2 XR)
 Class 380 : CRYPTOGRAPHY
 380/255 COMMUNICATION SYSTEM USING CRYPTOGRAPHY
 380/258 .Position dependent or authenticating
- 3 455/456.6 (0 OR, 3 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/456.1 ..Location monitoring
 455/456.6 ...At remote station (i.e., mobile station)
- 3 455/502 (3 OR, 0 XR)

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Class	455	:	TELECOMMUNICATIONS
455/39			TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
455/500			.Plural transmitters or receivers (i.e., more than two stations)
455/501			..Noise, distortion, or singing reduction
455/502			...Synchronized stations

3	701/1		(0 OR, 3 XR)	
	Class	701	:	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1			VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION

3	701/14		(0 OR, 3 XR)	
	Class	701	:	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1			VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/3			.Aeronautical vehicle
	701/14			..Flight condition indicating system

3	701/202		(0 OR, 3 XR)	
	Class	701	:	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200			NAVIGATION
	701/201			.Determination of travel data based on the start point and destination point
	701/202			..Route pre-planning

2	128/903		(0 OR, 2 XR)	
	Class	128	:	SURGERY
	128/903			RADIO TELEMETRY

2	244/171		(0 OR, 2 XR)	
	Class	244	:	AERONAUTICS
	244/158R			SPACECRAFT
	244/164			.Attitude control
	244/171			..With attitude sensor means

2	340/10.1		(0 OR, 2 XR)	
	Class	340	:	COMMUNICATIONS: ELECTRICAL
	340/825			SELECTIVE
	340/10.1			.Interrogation response

2	340/10.2		(0 OR, 2 XR)	
	Class	340	:	COMMUNICATIONS: ELECTRICAL
	340/825			SELECTIVE

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- 340/10.1 .Interrogation response
- 340/10.2 ..Contention avoidance

- 2 340/10.31 (0 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/825 SELECTIVE
 - 340/10.1 .Interrogation response
 - 340/10.3 ..Interrogation signal detail
 - 340/10.31 ...Individual call

- 2 340/10.41 (0 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/825 SELECTIVE
 - 340/10.1 .Interrogation response
 - 340/10.4 ..Response signal detail
 - 340/10.41 ...Combination response

- 2 340/426.18 (1 OR, 1 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/425.5 LAND VEHICLE ALARMS OR INDICATORS
 - 340/426.1 .Of burglary or unauthorized use
 - 340/426.18 ..Remote alarm

- 2 340/436 (0 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/425.5 LAND VEHICLE ALARMS OR INDICATORS
 - 340/436 .Of collision or contact with external object

- 2 340/573.3 (0 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/500 CONDITION RESPONSIVE INDICATING SYSTEM
 - 340/540 .Specific condition
 - 340/573.1 ..Human or animal
 - 340/573.3 ...Domestic animal training, monitoring, or controlling

- 2 340/573.4 (1 OR, 1 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/500 CONDITION RESPONSIVE INDICATING SYSTEM
 - 340/540 .Specific condition
 - 340/573.1 ..Human or animal
 - 340/573.4 ...House arrest system, wandering, or wrong place

- 2 340/7.21 (0 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/825 SELECTIVE

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340/825.36 .Having indication or alarm (e.g., location indication)
 340/7.2 ..Code responsive (i.e., paging)
 340/7.21 ...Two-way paging

2 340/7.43 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/825 SELECTIVE
 340/825.36 .Having indication or alarm (e.g., location indication)
 340/7.2 ..Code responsive (i.e., paging)
 340/7.43 ...Particular message and address format (e.g.

POCSAG, FLEX, etc.)

2 340/7.5 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/825 SELECTIVE
 340/825.36 .Having indication or alarm (e.g., location indication)
 340/7.2 ..Code responsive (i.e., paging)
 340/7.5 ...Distress signal

2 340/903 (1 OR, 1 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/901 EXTERNAL CONDITION VEHICLE-MOUNTED INDICATOR O

R

ALARM

340/902 .Transmitter in another vehicle (e.g., emergency vehicle)
 340/903 ..Relative distance between vehicles (e.g., collision alert)

2 340/933 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/933 VEHICLE DETECTORS

2 340/979 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/945 AIRCRAFT ALARM OR INDICATING SYSTEMS
 340/971 .Nonalarm flight indicator
 340/979 ..Heading (includes deviation from desired course)

2 340/992 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/988 VEHICLE POSITION INDICATION
 340/989 .At remote location

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340/992 ..Position indication transmitted at periodic
 intervals (e.g., distance travelled)

2 340/993 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/988 VEHICLE POSITION INDICATION
 340/989 ..At remote location
 340/993 ..Position indication transmitted by local
 station to remote location

2 340/995.2 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/988 VEHICLE POSITION INDICATION
 340/995.1 ..Map display
 340/995.19 ..Route determination and display on map
 340/995.2 ...Intersection turn guidance

2 340/995.21 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/988 VEHICLE POSITION INDICATION
 340/995.1 ..Map display
 340/995.19 ..Route determination and display on map
 340/995.2 ...Intersection turn guidance
 340/995.21 Off course, route re-search

2 340/995.24 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/988 VEHICLE POSITION INDICATION
 340/995.1 ..Map display
 340/995.24 ..Including landmark information

2 342/118 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE

2 342/29 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/29 AIRCRAFT COLLISION AVOIDANCE SYSTEM (CAS)

2 342/357.11 (1 OR, 1 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 ..Including a satellite
 342/357.01 ..With position indicating
 342/357.06 ...Using Global Positioning Satellite (GPS or

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Glonass)

342/357.11Attitude determination

2 342/363 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/361 .Including polarized signal communication
transmitter or receiver

342/362 ..Receiver only

342/363 ...Circular

2 342/386 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/385 .Beacon or receiver

342/386 ..With transmisson of bearing or position
determinative signals

2 342/462 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/450 .Position indicating (e.g., triangulation)

342/462 ..With altitude determination

2 343/713 (2 OR, 0 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
ANTENNAS

343/700R ANTENNAS

343/711 .With vehicle

343/713 ..Supported by vehicle body

2 343/725 (0 OR, 2 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
ANTENNAS

343/700R ANTENNAS

343/725 .Plural separate diverse type

2 348/116 (1 OR, 1 XR)

Class 348 : TELEVISION

348/61 SPECIAL APPLICATIONS

348/113 .Navigation

348/116 ..Direction finding or location determination

2 361/814 (0 OR, 2 XR)

Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

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361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS
361/679 .For electronic systems and devices
361/814 ..Radio type

2 370/316 (2 OR, 0 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/310 COMMUNICATION OVER FREE SPACE
370/315 .Repeater
370/316 ..Airborne or space satellite repeater

2 370/324 (1 OR, 1 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/310 COMMUNICATION OVER FREE SPACE
370/315 .Repeater
370/316 ..Airborne or space satellite repeater
370/319 ...Multiple access (e.g., FDMA)
370/321Time division (TDMA)
370/324Synchronization

2 370/335 (0 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/310 COMMUNICATION OVER FREE SPACE
370/328 .Having a plurality of contiguous regions
served by respective fixed stations
370/329 ..Channel assignment
370/335 ...Combining or distributing information via
code word channels using multiple access te
chniques (e.g.,
CDMA)

2 370/346 (2 OR, 0 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/310 COMMUNICATION OVER FREE SPACE
370/345 .Combining or distributing information via tim
e
channels
370/346 ..Polling

2 375/376 (1 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/354 SYNCHRONIZERS
375/371 .Phase displacement, slip or jitter correction
375/373 ..Phase locking
375/376 ...Phase locked loop

2 379/45 (0 OR, 2 XR)

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Class 379 : TELEPHONIC COMMUNICATIONS
 379/37 EMERGENCY OR ALARM COMMUNICATIONS (E.G.,
 WATCHMAN'S CIRCUIT)
 379/45 .Central office responsive to emergency call o

r
 alarm (e.g., "911", operator position displ
 ay)

2 396/310 (1 OR, 1 XR)
 Class 396 : PHOTOGRAPHY
 396/310 WITH DATA RECORDING

2 455/11.1 (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,
 RETRANSMISSION OF SAME INFORMATION)
 455/11.1 .Portable or mobile repeater

2 455/13.2 (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,
 RETRANSMISSION OF SAME INFORMATION)
 455/11.1 .Portable or mobile repeater
 455/12.1 ..Space satellite
 455/13.2 ...With synchronizing of satellites or system

2 455/439 (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/436 ..Handoff
 455/439 ...Handoff initiated by another source (e.g.,
 target, user initiated, mobile switching ce

nter (MSC), or
 mobile telephone switching office (MTSO), e
 tc.)

2 455/454 (1 OR, 1 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/450 ..Channel allocation
 455/454 ...Spectrum sharing for different type of
 system (e.g., point-to-point microwave, tel

evision, etc.)

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- 2 455/522 . (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

 455/500 .Plural transmitters or receivers (i.e., more
 than two stations)
 455/507 ..Central station (e.g., master, etc.)
 455/517 ...To or from mobile station
 455/522Transmission power control technique
- 2 455/563 (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

 TRANSCEIVER)
 455/550.1 .Radiotelephone equipment detail
 455/563 ..Having voice recognition or synthesization
- 2 455/575.9 (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

 TRANSCEIVER)
 455/550.1 .Radiotelephone equipment detail
 455/575.1 ..Housing or support
 455/575.9 ...In vehicle
- 2 473/407 (2 OR, 0 XR)
 Class 473 : GAMES USING TANGIBLE PROJECTILE
 473/131 GOLF
 473/407 .Club selection, ball direction, or distance
 indicating aid
- 2 700/3 (0 OR, 2 XR)
 Class 700 : DATA PROCESSING: GENERIC CONTROL SYSTEMS OR
 SPECIFIC APPLICATIONS
 700/1 GENERIC CONTROL SYSTEM, APPARATUS OR PROCESS
 700/2 .Plural processors
 700/3 ..Master-slave
- 2 701/120 (0 OR, 2 XR)
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
 RELATIVE LOCATION
 701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR
 INDICATION
 701/120 .Traffic analysis or control of aircraft
- 2 701/206 (0 OR, 2 XR)

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Class	701	:	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
701/200			NAVIGATION
701/206			.Employing way point navigation
2	701/217		(0 OR, 2 XR)
Class	701	:	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
701/200			NAVIGATION
701/207			.Employing position determining equipment
701/217			..Using dead-reckoning apparatus
2	701/221		(0 OR, 2 XR)
Class	701	:	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
701/200			NAVIGATION
701/207			.Employing position determining equipment
701/220			..Using inertial sensor
701/221			...With correction by noninertial sensor
2	701/222		(0 OR, 2 XR)
Class	701	:	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
701/200			NAVIGATION
701/207			.Employing position determining equipment
701/222			..Using star tracker
2	701/24		(0 OR, 2 XR)
Class	701	:	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
701/1			VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
701/23			.Automatic route guidance vehicle
701/24			..On-board computer interact with a host computer
2	701/29		(0 OR, 2 XR)
Class	701	:	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
701/1			VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
701/29			.Vehicle diagnosis or maintenance indication
2	702/166		(2 OR, 0 XR)
Class	702	:	DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING
702/127			MEASUREMENT SYSTEM
702/155			.Dimensional determination

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702/166 ..Height or depth

2 704/260 (2 OR, 0 XR)
 Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,
 LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO

 COMPRESSION/DECOMPRESSION

 704/200 SPEECH SIGNAL PROCESSING

 704/258 .Synthesis

 704/260 ..Image to speech

2 704/270 (0 OR, 2 XR)
 Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,
 LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO

 COMPRESSION/DECOMPRESSION

 704/200 SPEECH SIGNAL PROCESSING

 704/270 .Application

2 713/200 (2 OR, 0 XR)
 Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: SUPPORT

 713/200 SECURITY

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abstracts 1
accompanying 2
accomplish 1
according 10
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 represented 1
 required 1
 restricted 1
 restricting 2
 restriction 1
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 road 1
 safe 1
 safely 7
 safety 1
 same 2
 satellite 3
 schematically 4
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 smaller 1
 so 13
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